

# How to Obtain Funding

## Other Organizational Grants

### ASE, AHA, ACC

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# Financial Disclosure

Dr. Gardin has no conflicts of interest to disclose in connection with this presentation.

# ASE Foundation Career Development Award\*

Award Type	Duration	Due Date	Total \$
ASE Foundation			
Career Development Award	One year: June 2012 – June 2013	February 15**	\$35,000

\*One year awards

\*\*Additional 2012 funding opportunities will be available later this year.

# American Society of Echocardiography Suggested Roadmap for Cardiovascular Ultrasound Research for the Future

## Potential Research Areas

- Global and regional LV function
  - including speckle tracking and 3D technologies
- Molecular Imaging
  - Selective targeting and retention of contrast at sites of disease
  - Assess processes, e.g., protein expression, metabolic states, intracellular molecular trafficking, gene transcription, enzyme activity, pH, etc.

# American Society of Echocardiography Suggested Roadmap for Cardiovascular Ultrasound Research for the Future

## Potential Research Areas

- **Therapeutic Ultrasound**
  - Sonothrombolysis: Ultrasound enhances activity of thrombolytic agents
  - Gene and drug delivery
  - High-intensity focused ultrasound: ablate uterine fibroids, prostate tumors, etc.
- **Peripheral Arterial Disease**
  - Use of contrast-enhanced ultrasound
  - Handheld ultrasound

# American Society of Echocardiography Suggested Roadmap for Cardiovascular Ultrasound Research for the Future

## Potential Research Areas

- Assessment of regional perfusion
  - Microvascular disease
  - Multicenter studies
- Future Technology-Related Issues
  - Sensor technology: capable of fusion imaging and high-intensity focused ultrasound therapy
  - Miniaturization: smaller (e.g., handheld), more powerful, capable of 2D and 3D echo
  - Small animal imaging systems

# American Heart Association Research

General scientific categories for classifying applications for research funding potentially related to echocardiography

- Bioengineering and Biotechnology
- Cardiac Biology Regulation—Basic and Clinical/Translational
- Observational/Epidemiology
- Radiology and Imaging—Basic Science/Clinical/Translational

# American Heart Association Research Program Offerings and Career Stages

## Early Stages

Career Stage	<b>Making the Decision</b> <i>(Undergraduate student classified as junior or senior)</i>	<b>Gaining Credentials</b> <i>(Doctoral Student)</i>	<b>Directed Step</b> <i>(Masters degree*, postdoctoral fellow)</i>
Program & Funding Component	Undergraduate Student Research Program / Student Undergraduate Research Fellowship	<ul style="list-style-type: none"> <li>• Predoctoral Fellowship</li> <li>• Health Sciences Fellowship</li> <li>• Medical Student Research Program</li> </ul>	<ul style="list-style-type: none"> <li>• Clinical Research Program</li> <li>• Fellow-to-Faculty Transition Award</li> <li>• Postdoctoral Fellowship</li> </ul>

\*Healthcare professionals with a Masters degree, as well as healthcare professionals with certain doctoral degrees, may apply for the Clinical Research Program.



# American Heart Association Research Program Offerings and Career Stages

## Middle and Later Stages

Career Stage	<b>First Independent Step</b>  <i>(Instructor, assistant professor or other first academic appointment or equivalent)</i>	<b>Intermediate Level</b>  <i>(Assistant professor, associate professor or equivalent)</i>	<b>Recognized Investigator</b>  <i>(Associate professor, professor or equivalent)</i>
Program & Funding Component	<ul style="list-style-type: none"> <li>• Clinical Research Program</li> <li>• Beginning Grant-in-Aid</li> <li>• Scientist Development Grant</li> <li>• Grant-in-Aid**</li> <li>• Innovative Research Grant</li> </ul>	<ul style="list-style-type: none"> <li>• Clinical Research Program</li> <li>• Grant-in-Aid**</li> <li>• Innovative Research Grant</li> <li>• Established Investigator Award</li> </ul>	<ul style="list-style-type: none"> <li>• Grant-in-Aid**</li> <li>• Innovative Research Grant</li> </ul>

\*\*Applicants for the Grant-in-Aid award are expected to be independent investigators.

# American Heart Association Research Award Types

Award Type	Career Stage	Duration	Total \$
<b>AHA</b>			
<b>Undergraduate Student Research Program / Student Undergraduate Research Fellowship</b>	Making the decision	For student: 10 weeks minimum For institution: One or two years	Maximum: \$40,000
<b>Medical Student Research Program</b>	Gaining credentials	For student: 8, 10 or 12 weeks For institution: One year	\$4,800-7,200
<b>Predocutorial Fellowship</b>	Gaining credentials	One or two years	\$22-52,000
<b>Health Sciences Fellowship</b>	Gaining credentials	Two years	\$27,000
<b>Clinical Research Program</b>	Directed step; First independent step; Intermediate level	Two years	\$75-150,000
<b>Fellow-to-Faculty Transition Award</b>	Directed step	Five years	\$660,000

Total \$ = Total amount of award funding

# American Heart Association Research Award Types

Award Type	Career Stage	Duration	Total \$
<b>AHA</b>			
<b>Postdoctoral Fellowship</b>	Directed step	Two years	\$78-112,136
<b>Beginning Grant-In-Aid</b>	First independent step (Instructor, assistant professor)	Two years	\$132-140,000
<b>Grant-In-Aid</b>	First independent step; Intermediate level; Recognized investigator	Two or three years	\$132-198,000
<b>Scientist Development Grant</b>	First independent step	Three or four years	\$214,500-308,000
<b>Innovative Research Grant</b>	First independent step; Intermediate level; Recognized investigator	Two years	\$150,000
<b>Established Investigator Award</b>	Intermediate level	Five years	\$400,000

Total \$ = Total amount of award funding

# American College of Cardiology Research Award Types

Award Type	Duration	Due Date	Total \$
<b>ACC Foundation</b>			
<b>ACCF Young Investigators Awards Competition</b>	One-time award	October 15	\$500-\$2,000
<b>ACCF/William F. Keating, Esq. Endowment Award for Hypertension and Peripheral Vascular Disease</b>	One year: July 1 – June 30	September 24	\$70,000
<b>ACCF/Merck Research Fellowship Award</b>	One year: July 1 – June 30	September 24	\$70,000
<b>ISCTR-ACCF CV Translational Research Award</b>	One year: July 1 – June 30	September 24	\$70,000
<b>ACCF/Daiichi Sankyo Career Development Award</b>	Two years	September 24	\$140,000

# INSTITUTE OF MEDICINE

## 100 Initial Priority Topics for Comparative Effectiveness Research—Echo Related

- Compare effectiveness of diagnostic imaging performed by **non-radiologists** and **radiologists**.
- Compare effectiveness of **traditional risk stratification** for coronary heart disease (CHD) and **noninvasive imaging** (of coronary artery calcium, carotid intima media thickness, etc.) on **CHD outcomes**.
- Compare effectiveness of **innovative treatment strategies** (e.g., cardiac resynchronization, remote physiologic monitoring, pharmacologic treatment, novel agents such as CRF-2 receptors) for **heart failure**.